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his contributions to chemical and physical science.

A Royal medal to Professor John Henry Poynting, F.R.S., for his researches in physical science, especially in connection with the constant of gravitation and the theories of electrodynamics and radiation.

A Royal medal to Professor Charles Scott Sherrington, F.R.S., for his researches on the central nervous system, especially in relation to reflex action.

The Davy medal to Professor Albert Ladenburg, of Breslau, for his researches in organic chemistry, especially in connection with the synthesis of natural alkaloids.

The Hughes medal to Professor Augusto Righi, of Bologna, on the ground of his experimental researches in electrical science.

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#### MEETING OF TRUSTEES OF THE CARNEGIE FOUNDATION.

THE first meeting of the trustees of the Carnegie Foundation, the \$10,000,000 fund given by Mr. Andrew Carnegie last May for the pensioning of college professors, was held, on November 15, at Mr. Carnegie's residence, in New York.

The morning session was devoted to an informal conference. After luncheon Mr. Carnegie called the meeting formally to order. In a brief speech he expressed satisfaction at gathering together so many prominent educators. Nothing he had ever done, he said, seemed so propitious or so likely to be useful to the cause of education as this gift. He expressed the hope, in conclusion, that the trust would be administered in a broad and generous manner. President Eliot, of Harvard, in reply expressed the thanks of the teaching profession to the donor.

The board of directors organized by electing President Eliot chairman, President Harper vice-chairman and President Thwing secretary. By-laws were then adopted providing that the business of the board be entrusted to an executive committee and a president who shall be chairman of the committee. Dr. Henry S. Pritchett, president of the Massachusetts Institute of Technology, was chosen

president. The committee was made up as follows: President Butler, of Columbia; President Wilson, of Princeton; Provost Harrison, of the University of Pennsylvania; President Humphreys, of Stevens Institute; Mr. Vanderlip, vice-president of the National City Bank; and Mr. Franks, Mr. Carnegie's financial secretary.

It was decided that the head office of the foundation shall be in New York City. The third Wednesday in November was selected as the date of the annual meeting. A special meeting will be held in New York late in the winter, at which time the executive committee will make a report on the plan and scope of the organization.

All the trustees except President Harper, of Chicago, were present, namely: Charles W. Eliot, Harvard; A. T. Hadley, Yale; Nicholas Murray Butler, Columbia; Woodrow Wilson, Princeton; Jacob G. Schurman, Cornell; L. Clark Seeley, Smith; Charles C. Harrison, Pennsylvania; Alexander C. Humphreys, Stevens Institute; S. B. McCormick, Western University of Pennsylvania; Edwin B. Craighead, Tulane; H. C. King, Oberlin; Edwin H. Hughes, De Pauw; C. F. Thwing, Western Reserve University; Thomas McClelland Bell, Drake; George H. Denny, Washington and Lee; Principal Peterson, McGill University, Montreal; Samuel Plautz, Lawrence; David Starr Jordan, Stanford; W. H. Crawford, Allegheny; Henry S. Pritchett, Massachusetts Institute of Technology; F. A. Vanderlip, T. Morris Carnegie and Robert A. Franks.

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#### SCIENTIFIC NOTES AND NEWS.

PROFESSOR ALBERT VON KÖLLICKER, the eminent anatomist and zoologist, died at Würzburg, on November 3, at the age of eighty-eight years.

At the meeting of the Academy of Natural Sciences of Philadelphia, held on November 7, the Hayden memorial gold medal was unanimously voted to Charles Doolittle Walcott, director of the United States Geological Survey, in recognition of the value of his individual contributions to geological science and of the benefits derived from his able and con-

scientious discharge of the official trust confided to him.

THE daily papers announce that the Mexican Astronomical Society has awarded the prize offered by the Bishop of Leon for some notable astronomical discovery to William H. Pickering, of Harvard College Observatory, for the discovery of the tenth satellite of Saturn. Another prize was awarded to Professor C. D. Perrine, of Lick Observatory, California, for the discovery of the sixth and seventh satellites.

THE French Academy of Moral and Political Sciences has decided to award the François-Joseph Audiffred prize, of the value of \$3,000, which is given in recompense of the most beautiful and greatest acts of self-devotion of whatever kind they may be, to Professor Calmette, director of the Pasteur Institute at Lille.

MEDICAL journals state that medals were awarded by the recent Congress of Tuberculosis to Drs. Koch, of Berlin; Brouardel, of Paris; Bang, of Copenhagen; Biggs, of New York; Broadbent, of London; and von Schroetter, of Vienna.

PRESIDENT ELIOT, of Harvard University, gave, on November 13, the first lecture under the foundation recently given to Yale University by a Harvard alumnus 'to promote friendly feelings between the two universities.' Dr. Eliot spoke on 'Resemblances and Differences among American Universities.'

DR. LEWELLYS F. BARKER, professor of medicine in the Johns Hopkins University, delivered an address before the Library and Historical Society of the University of Maryland, Baltimore, October 26, on 'The Ordering of Life.'

PROFESSOR K. KLEIN has been appointed director of the Museum of Natural History of the University of Berlin, in which position he succeeds Dr. Karl Möbius.

MR. G. W. SMITH, New College, Oxford, has been appointed to the biological scholarship at Naples for the year 1905-6.

DR. MAURITS SNELLIN has resigned the directorship of the section of terrestrial mag-

netism and seismology at the Royal Dutch Meteorological Institute.

SIR FREDERICK TREVES, the well-known surgeon, has agreed to be nominated on non-political and academic grounds for the lord rectorship of Aberdeen University.

DR. JOHN DYNELEY PRINCE, professor of Semitic languages and literature in Columbia University, has been elected to the New Jersey State Assembly from Passaic County.

WE learn from the *British Medical Journal* that King Edward on the occasion of his birthday has conferred the honor of knighthood upon Dr. James Barr, physician to the Royal Infirmary, Liverpool, and lecturer on clinical medicine in University College, Liverpool, and upon Mr. Arthur Chance, president of the Royal College of Surgeons in Ireland. Dr. Theodore Thomson, one of the medical inspectors of the Local Government Board, has been made a C.M.G. in recognition of services rendered in connection with sanitary matters to the Foreign Office and Colonial Office. The same honor is conferred upon Dr. Marc Armand Ruffer, president of the Egyptian Sanitary Board, distinguished for his researches in bacteriology and pathology; and upon Dr. Featherston Cargill, resident in the Protectorate of Northern Nigeria. Sir Felix Semon, C.V.O., physician extraordinary to the king, has been advanced to be a knight of the Royal Victorian Order. The honor of knighthood has also been conferred upon Mr. John McFadyean, professor of comparative pathology and bacteriology, Royal Veterinary College, London.

AT a recent meeting of the directors of the Christian Association of the University of Pennsylvania it was resolved to send Dr. Josiah C. McCracken to China for a period of one year in order to study the situation on the field and arrange details for the establishment of the proposed medical school in Canton.

DR. C. H. GORDON, until recently professor of geology in the New Mexico School of Mines, has been engaged for several months in the study of the geology and ore occur-

rences of the Magdalena and Black Range districts of New Mexico for the U. S. Geological Survey.

PROFESSOR G. F. HULL, of Dartmouth College, is spending the year at the Cavendish Laboratory, Cambridge. He has been elected fellow commoner by the council of St. John's College.

DR. SVEN HEDIN is on the way to Persia, where he proposes to explore thoroughly, from a scientific point of view, the salt deserts of Dasht-i-Kavir and Dasht-i-Lut in the eastern part of the country. He hopes afterwards to proceed through Afghanistan to India, and there organize an expedition for the exploration of Central Tibet.

*Nature* states that at the inaugural meeting of the eighty-seventh session of the Institution of Civil Engineers, held on Tuesday, November 7, Sir Guilford Molesworth, K.C.I.E., the retiring president, formally introduced to the members his successor in the chair, Sir Alexander Binnie, who delivered an address to the members, in which he traced the influence of scientific thought and investigation upon the development of engineering practise.

SIR ARCHIBALD GEIKIE expected, on behalf of the board of geographical studies, of Cambridge University, to deliver a public lecture in the Sedgwick Museum, on November 21, on 'The Evolution of a Landscape.'

PROFESSOR GEORGE M. STRATTON, of the Johns Hopkins University, lectured last week before the department of philosophy, of Wesleyan University, on 'Optimism and the Scientific Method.'

A PUBLIC meeting on the mosquito question was held at the Johns Hopkins University, Baltimore, on November 1, at which Professor John B. Smith, state entomologist of New Jersey, delivered an illustrated lecture.

AN oil portrait of Dr. John Rodman Coxe, was presented, by his grandson, to the department of medicine of the University of Pennsylvania, on October 20. In 1809 Dr. Coxe was appointed professor of chemistry in the University of Pennsylvania, and from 1818 to 1835 he was professor of materia medica and

pharmacy. He was a trustee of the university and one of the founders of the Philadelphia College of Pharmacy.

DR. F. A. MÜLLER, formerly professor in the veterinary institute of the University of Vienna, died on October 16 at the age of eighty-nine years.

THE death is also announced of Professor Albert Engelbrecht, of the Government Laboratory for Chemistry, at Hamburg.

WE learn from *Nature* that at a meeting of the council of the British Association on November 3, it was decided that, in consequence of representations by the local committee, the meeting at York next year shall be opened on Wednesday, August 1, which is earlier than the usual date. The council of the association has received a gift of £50 from Mrs. John Hopkinson, to be devoted to some investigation which may be suggested at the next meeting by the committee of recommendations.

THE fourth meeting of the California Branch of the American Folk-Lore Society was held at the University of California in Berkeley, on Tuesday, November 14. Professor John Fryer delivered a lecture on 'Fox-Myths in Chinese Folk-Lore,' illustrated by specially prepared lantern slides.

THERE will be a New York State civil service examination on December 9, when positions will be filled of assistant chemist in the Cancer Laboratory at Buffalo, with a salary of \$720; for physician in the State Hospitals, beginning at an annual salary of \$900 and increasing to \$1,200 with maintenance, and of assistant statistician in the Department of Excise, with a salary of \$1,500 to \$1,800.

A TELEGRAM has been received at the Scottish National Antarctic offices in Edinburgh from Mr. Angus Rankin, announcing the arrival of the Ben Nevis Observatory staff at Buenos Ayres, from which place they leave shortly for the Antarctic station at Scotia Bay, South Orkneys.

THE British registrar-general has issued his returns relating to the births and deaths in the

third quarter of the year. According to the abstract in the *British Medical Journal*, the births registered in England and Wales during the quarter ending September last numbered 235,205, and were equal to an annual rate of 27.3 per 1,000 of the population, estimated at 34,152,977 persons in the middle of the year. This is the lowest birth rate recorded in the third quarter of any year since civil registration was established, and was 1.8 per 1,000 below the average in the corresponding quarters of the ten preceding years, 1895-1904. Among the several registration counties the birth rate last quarter ranged from 21.3 in Sussex, 22.6 in Herefordshire, 22.8 in Dorsetshire and in Cornwall, and 22.9 in Somersetshire, to 30.8 in Nottinghamshire, 32.2 in Northumberland, 32.6 in Carmarthenshire, 34.1 in Durham, 34.6 in Glamorganshire, and 35.7 in Monmouthshire. In seventy-six of the largest English towns, including London, the birth rate averaged 28.2 per 1,000; in London the rate was 26.8. During the third quarter of the year the deaths of 120,792 persons were registered, equal to an annual rate of 14.0 per 1,000; this rate was 2.5 per 1,000 below the mean rate in the corresponding periods of the ten preceding years. The lowest county death rates last quarter were 10.3 in Surrey and in Hertfordshire, 10.5 in Berkshire, 10.6 in Bedfordshire, 10.7 in Dorsetshire, and 10.8 in Cambridgeshire; the highest rates were 15.1 in the East Riding of Yorkshire, 15.9 in Glamorganshire, 16.1 in Northumberland and in Monmouth, 16.8 in Lancashire, and 17.1 in Durham. In seventy-six of the largest English towns, with an aggregate population of more than fifteen and a half millions, the mean rate of mortality was 15.2 per 1,000; in 141 smaller towns, containing in the aggregate about four and three quarter millions of persons, the rate averaged 13.3 per 1,000; while in the remaining, and chiefly rural parts of England and Wales the rate was 13.0 per 1,000. In London the death rate was 14.6 per 1,000. The rate of infant mortality, measured by the proportion of deaths among children under 1 year of age to registered births, was equal to 155 per 1,000, against an average rate of 192. In the several counties the rates of infant mortality

ranged from 61 in Cambridgeshire, 64 in Dorsetshire, 68 in Somersetshire, 70 in Buckinghamshire, 75 in Hertfordshire, and 76 in Shropshire, to 176 in Glamorganshire, 182 in the West Riding of Yorkshire, 186 in Durham, and 200 in Lancashire and in the East Riding of Yorkshire. In the seventy-six large towns the mean rate was 186 per 1,000; in London the proportion was equal to 174 per 1,000, while it averaged 191 in the seventy-five large provincial towns, among which the rates ranged from 74 in Hornsey, 75 in Bournemouth, 77 in King's Norton, 88 in Burton-on-Trent, and 89 in Hastings, to 261 in Sheffield, 267 in Wigan, 275 in Norwich, 277 in Stockport, 282 in Rhondda, and 354 in Grimsby.

#### UNIVERSITY AND EDUCATIONAL NEWS.

By the will of Joseph E. Gillingham, numerous bequests are made to educational and charitable institutions, including \$50,000 each to the University of Pennsylvania for the veterinary department, to Haverford College, to Swarthmore College and to Bryn Mawr College.

THE trustees of the agricultural school, provided for in the will of Oliver Smith, of Hatfield, sixty years ago, have bought a site in Northampton, Mass., in order to be ready for establishing the school when the funds become available on December 22. The purchase consists of ninety-three acres, obtained for \$19,450. The endowment now amounts to \$312,000.

THE school fund of Minnesota now amounts to over \$16,000,000, and is increasing at the rate of a million dollars a year. It is said that this fund, which by the constitution of the state accrues from the sale of certain lands, will ultimately amount to \$100,000,000, only the interest of which can be used for school purposes.

By the will of the late Mr. J. E. Williams, the University of Wales receives £10,000 and the University College of North Wales at Bangor £12,000.

THE council of University College, Dundee, have declined Mr. J. K. Caird's gift of £16,000 for the erection of a physical laboratory on